

Title (en)
SUBMERGED DISCHARGE DEVICE

Title (de)
UNTERWASSERAUSSTOSSVORRICHTUNG

Title (fr)
DISPOSITIF D'ÉVACUATION IMMERGÉ

Publication
EP 3109203 A4 20170913 (EN)

Application
EP 15769007 A 20150312

Priority
• JP 2014068469 A 20140328
• JP 2015001389 W 20150312

Abstract (en)
[origin: EP3109203A1] In a submerged discharge device, a pair of electrodes is arranged in a liquid in a reservoir to receive an alternating voltage from an alternating power source, thereby generating a submerged discharge using a discharger arranged in the liquid between the pair of electrodes. A surface of this pair of electrodes (31, 32) has a coating (31a, 32a) that ensures the submerged discharge generated by the discharger. This may reduce the area of contact between the surface of the pair of electrodes (31, 32) and the liquid in the treatment vessel to reduce the consumption of the pair of electrodes (31, 32).

IPC 8 full level
C25B 11/14 (2006.01); **C02F 1/46** (2006.01); **C02F 1/467** (2006.01)

CPC (source: EP US)
C02F 1/4608 (2013.01 - EP US); **C02F 1/46109** (2013.01 - EP US); **C02F 1/4672** (2013.01 - US); **C25B 11/04** (2013.01 - EP US); **C02F 2001/46138** (2013.01 - EP US); **C02F 2201/4613** (2013.01 - EP US); **C02F 2201/46175** (2013.01 - EP US)

Citation (search report)
• [XI] KR 100541467 B1 20060111
• [XI] JP 3267779 B2 20020325
• [XI] US 2014014516 A1 20140116 - KUMAGAI HIRONORI [JP], et al
• See references of WO 2015146049A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3109203 A1 20161228; EP 3109203 A4 20170913; CN 106132879 A 20161116; JP 2015188838 A 20151102; JP 5812141 B2 20151111; US 10087091 B2 20181002; US 2017107123 A1 20170420; WO 2015146049 A1 20151001

DOCDB simple family (application)
EP 15769007 A 20150312; CN 201580015402 A 20150312; JP 2014068469 A 20140328; JP 2015001389 W 20150312; US 201515128524 A 20150312